




# velocd

HI-SPEED USB 2.0 EXTERNAL CD-REWRITEABLE DRIVE

 **CAUTION:** Improper use of controls adjustments, or performing procedures other than those specified herein may result in hazardous radiation exposure.

 **CAUTION:** Your CD-R/W drive holds sensitive, high-precision optics. Dropping and/or shaking the CD-R/W drive could damage these sensitive components. Please be careful when handling your CD-R/W drive.

 **CAUTION:** Any changes not approved by the manufacturer could void the user's warranty and authority to operate the equipment.

### FCC Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee interference will not occur in a particular installation. If this equipment causes harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- > Reorient or relocate the receiving antenna.
- > Increase the separation between the equipment and receiver.
- > Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- > Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications should be approved by the party responsible for compliance with FCC Rules; otherwise, the user loses authority to operate the equipment.

The laser beam emitted from the optical pickup is invisible. **Accordingly:**

- > Do not open the optical pickup housing.
- > Obtain service only from TDK-authorized personnel.

### LASER INFORMATION

These products have been designed and manufactured according to IEC 825-1 on the Safety of Laser products. This product comes under "Class 1 Laser Products." A Laser Caution Marking is attached on the top of the internal drive model: "Caution: Invisible laser radiation when open. Avoid direct exposure to beam."

# veloCD

HI-SPEED USB 2.0 EXTERNAL CD-REWRITEABLE DRIVE



## MINIMUM SYSTEM REQUIREMENTS:

### Windows:

Pentium 266 MHz or equivalent

Windows 98SE/ME/2000 SP1/XP

64 MB RAM

Available built in USB port or USB PCI Card\*

Available built in USB 2.0 port or USB 2.0 PCI card\*

200 MB of available hard drive space

**\*NOTE:** When connected to the computer via standard USB 1.1, the drive's maximum write speed is 4X due to bandwidth limitations. Connect to the computer via USB 2.0 for maximum write speed performance.

## SUPPLIED WITH:

### veloCD Drive

USB cable (A/B)

Software CD-ROM

AC/DC Adaptor

Manual

Quickstart Guide

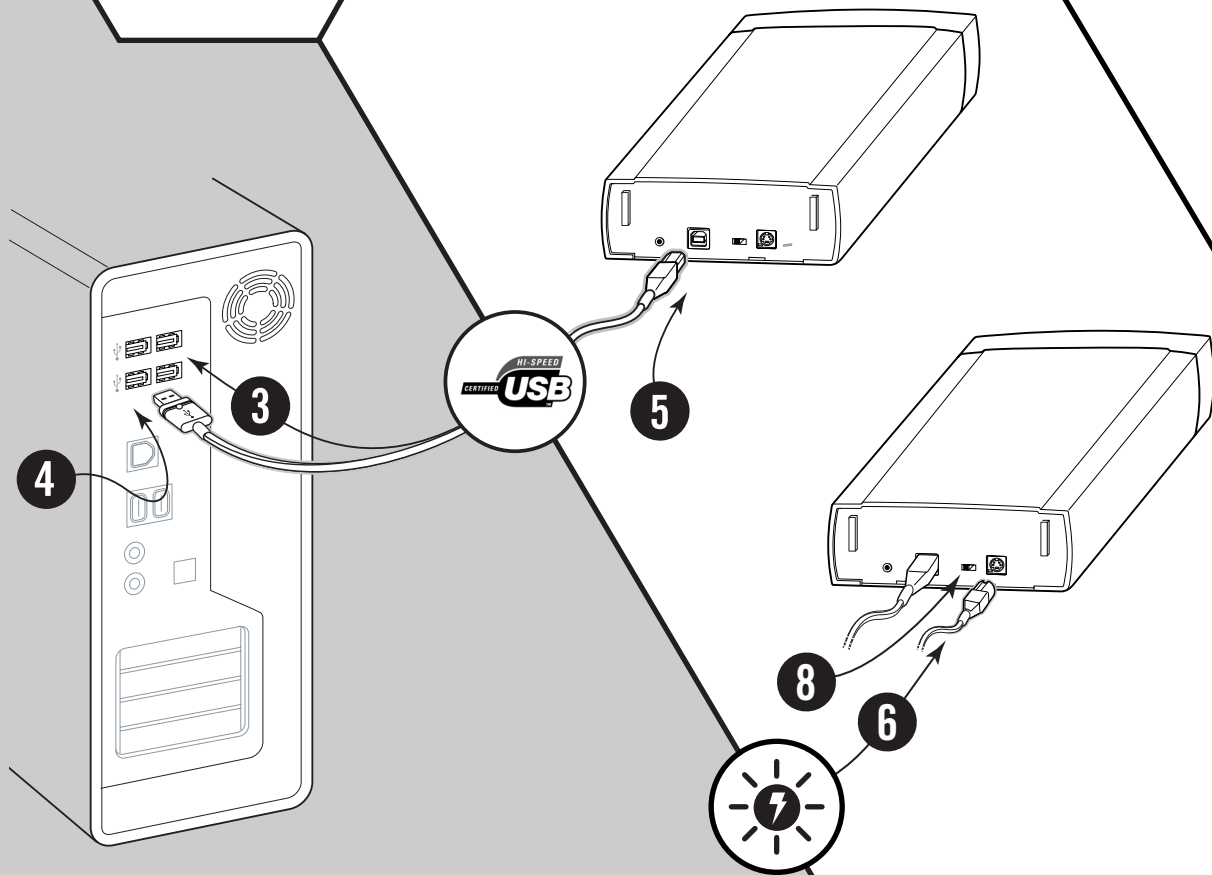
Ejector Pin



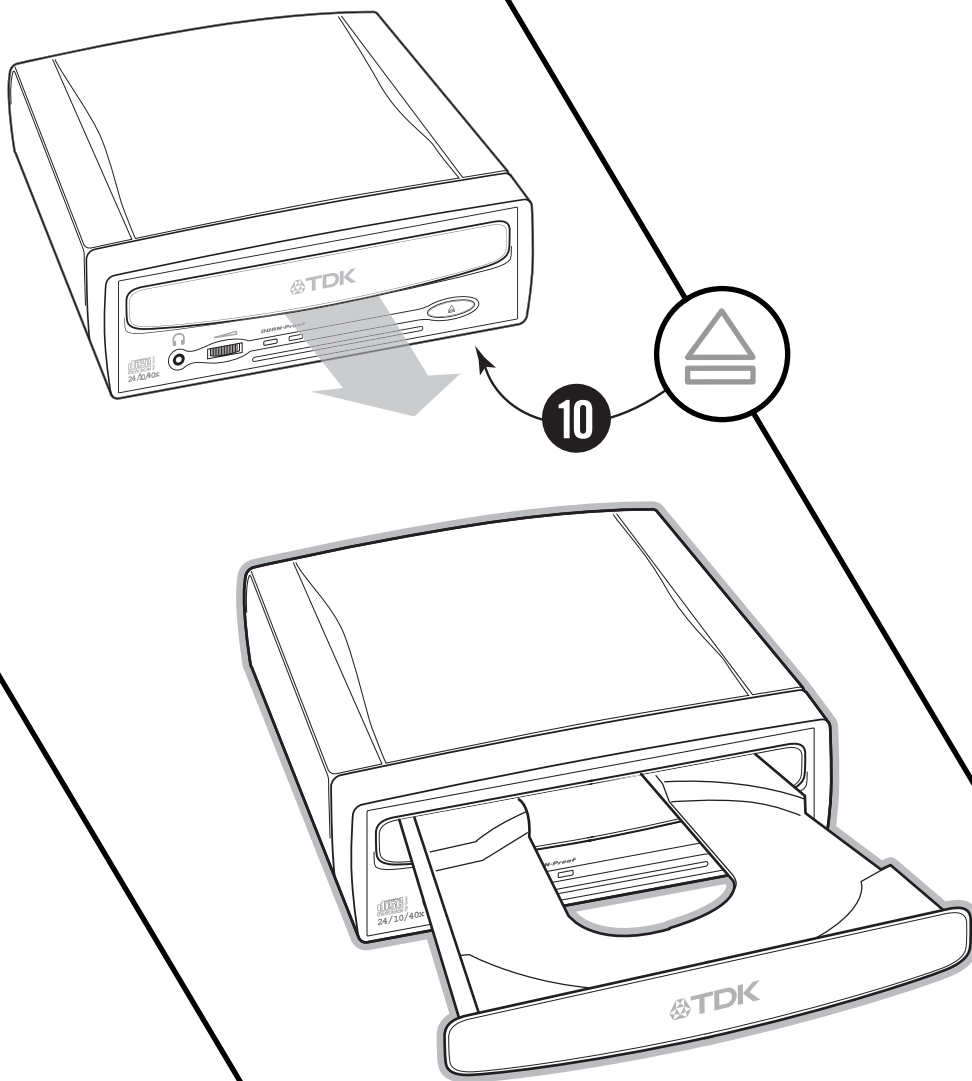
# PLUG AND PLAY

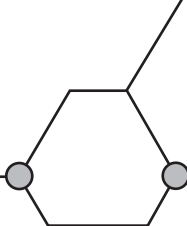
## EASY TO SET-UP AND USE

1. Insert the program installation CD into your computer's original disc drive to install the software programs and Hi-Speed USB driver.
2. Install the TDK CD Blender Recording Software Suite by clicking on the desired programs. Follow the on-screen prompts to finish installation.
3. Locate the USB 2.0 port on the back of your PC.
4. Connect the flat end of the USB cable to the port in back of your PC.



5. Connect the other end of the USB cable to the back of your veloCD drive.
6. Connect the power cord to the back of your veloCD drive.
7. Connect the plug to a wall outlet or power strip.
8. Power on your veloCD drive using the switch in the back of the drive.
9. If your computer is on, a "New Hardware" window should appear. If a previously installed Hi-Speed USB driver has already been recognized, follow the on-screen prompts. If the driver needs to be installed, follow the instructions in the Troubleshooting section following this page.
10. Open the CD tray by pressing the eject button on the front of your veloCD drive.





# TROUBLESHOOTING

**veloCD will not record at maximum speed.**

## **Ensure that DMA is enabled (Windows 95B/98/98SE/ME)**

1. In Windows, click the START button, then SETTINGS, then CONTROL PANEL.
2. Double click SYSTEM in the Control Panel folder, then the DEVICE MANAGER tab. You will see a list of devices in your system.
3. Click the CD-ROM icon, and choose your veloCD drive's Properties button. You will see the drive properties for the veloCD ReWRITER.
4. Ensure that the DMA box is checked ON under the Settings tab.
5. Repeat steps 1 through 4 for other devices that you will be recording from and recording to such as a hard drive and/or a second CD-ROM or CD-Rewriter.
6. Reboot your computer for the change to take effect.

## **Ensure that DMA is enabled (Windows 2000/XP)**

1. Click the START button on the Windows taskbar.
2. Select SETTINGS and then CONTROL PANEL from the menu.
3. Double Click the SYSTEM icon in the Windows CONTROL PANEL.
4. Select the HARDWARE tab then click on the DEVICE MANAGER button.
5. Click on the (+) sign beside IDE ATA/ATAPI CONTROLLERS.
6. Right click on the appropriate IDE channel (Primary or Secondary), right click PROPERTIES and select the ADVANCED SETTINGS tab.
7. Set the "Transfer Mode" to "DMA if available".  
Device 0 is the MASTER device on the IDE channel and Device 1 is the SLAVE.
8. Click OK to accept the change and then reboot the computer for the change to take effect.

## **Ensure that DMA is enabled (Windows NT)**

1. Check your CMOS and/or BIOS to make sure that DMA is enabled.

## **Verify that the drive is connected to a properly functioning USB 2.0 port.**

1. If connected to a USB PCI card, check the manual that came with the card to confirm that the card is USB 2.0 compatible.
2. If connected to a USB port that's built into your computer, check the manual that came with the computer to confirm that the port is USB 2.0 compatible.
3. Make sure the most up-to-date USB 2.0 drivers are installed. Use the driver included in the Bonus Utilities folder on the CD Blender Recording Software Suite program disc. Contact the manufacturer of your computer or USB 2.0 PCI card for help.
4. Make sure you are not connected to the USB 1.1 port.  
Connect to an available USB 2.0 port.

**NOTE: To record at the drive's maximum speed, you must use media rated for that speed.**

**IMPORTANT NOTE: To record at maximum speed, the drive must be connected to the computer's USB 2.0 port. If the drive is connected to a standard USB 1.1 port, the maximum record speed will be 4X.**

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**Can't create a multi-session disc.**

1. Check to see if there is enough space left on the disc including the lead in and lead out for each session.

**Can't create a CD using  
CD-R or CD-RW media.**

1. A buffer underrun occurred. Either select a slower speed or select using Buffer Underrun Protection in your software.
2. Disable all other functions and applications that could interrupt the stream of information.
3. Make sure that the media does not have any fingerprints, dirt or scratches on its surface.
4. Check to see if the CD-RW already has data written on it. Erase or format the CD-RW.

**Can't hear an audio CD through  
the veloCD headphone jack.**

1. To get sound from the headphone jack located on the front of veloCD, you must play back your audio disc in analog mode. Check that the input settings in your audio software are enabled to allow analog playback.

**Can't read a session after  
a successful write.**

1. See if you can read the disc in another CD-ROM player. Directory information could be corrupt.
2. Make sure that you closed or finalized the session.

**Can't eject the CD.**

1. Shutdown the computer and power off the drive, then power on the drive and use the eject button.
2. If everything failed, use the emergency eject hole. Use the supplied emergency ejector pin by pushing it in the emergency hole in a steady manner until the tray is released.

**The drive does not power up.**

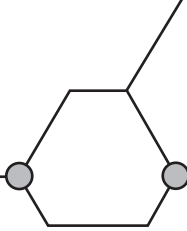
1. Make sure the drive is properly connected to a "live" AC outlet using the supplied power cable or try reconnecting the cable.

**The computer does not start up.**

1. Make sure the USB 2.0 interface card is installed properly. Check the manual that came with the card for details.

**The veloCD drive is not recognized  
by the operating system.**

1. Make sure the USB cable is fully connected at both ends.
2. Check if the drive is properly connected to the computer using a working USB cable.
3. Make sure the USB driver included in the Bonus Utilities folder on the CD Blender Recording Software Suite program disc is installed. See the section about installing the included Hi-Speed driver.



**The disc keeps ejecting.**

1. Check if the disc was properly placed in the tray.
2. Is the disc surface dirty? Clean the disc surface using a lint-free cloth. Wipe from the center of the disc to the edge.
3. Check if the drive accepts other discs.

**Can't load the disc.**

1. Make sure the disc is supported by the drive.
2. If the drive automatically opens the tray to eject the disc, see the section titled "The disc keeps ejecting."
3. Is the disc surface dirty? Clean the disc surface using a lint-free cloth. Wipe from the center of the disc to the edge.
4. Check if the drive accepts other discs.
5. Make sure the LED lights properly when the disc is loading.

**The drive fails to read the disc.**

1. Disconnect the USB cable from your drive, leaving the power cable connected. Eject the disc, reconnect the USB cable and try loading the disc again.

## INSTALLING THE HI-SPEED DRIVER

1. Insert the TDK CD Blender Recording Software Suite program disc into your original drive.
2. Connect and power on the veloCD drive. A New Hardware window will appear on your monitor. Click NEXT.
3. Check the "Search for the best driver for your device (recommended)" option. Click NEXT.
4. Make sure that only "Specify Location" is checked and click BROWSE.
5. An explorer window will appear. Double click the drive the program disc is in. It should be labeled as TDK\_SUITE.
6. Double click BONUS UTILITIES, then click HI-SPEED USB DRIVER.
7. Click OK and follow the on-screen prompts to finish installation.



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## TDK VELOC D WARRANTY

### **One Year Limited Warranty for Hardware Ninety Day Limited Warranty for TDK Software**

TDK Electronics Corporation ("TDK") warrants to the end-user customer that this data storage product will be free from defects in material and workmanship for a period of one (1) year from date of purchase. If TDK receives notice of any such defects during the warranty period, TDK will, at its option, either repair or replace the Product that it finds to be defective at no charge (except for shipping and insurance). Repair of defective Product may be with either new or rebuilt replacement parts that will be warranted for the remainder of the original warranty period. Any exchanged parts under this warranty will become the property of TDK. Replacement Product may be either new or reconditioned. If the Product is discontinued and no longer available, then it may be replaced with Product determined by TDK to be of similar value and performance.

TDK does not warrant that the operation of the Product will be uninterrupted or error free. This Limited Warranty does not apply to defects resulting from (1) acts of God, accident, misuse, abuse, negligence, abnormal, or unusually heavy use; (2) improper installation, operation, testing or maintenance; (3) power failure or connection to improper voltage supply; or (4) attempted repair by any party other than TDK. This Limited Warranty does not apply when the malfunction results from the use of the Product in conjunction with other products, software or accessories, or where it is determined by TDK that there is no fault with the Product itself. This Limited Warranty is invalid if the factory-applied serial number has been altered or removed from the Product.

This Limited Warranty extends only to the original end-user customer and is not transferable to any subsequent purchaser. This Limited Warranty is valid only within the United States. For areas outside the United States, contact the authorized dealer from whom you purchased the Product to determine what warranty, if any, applies.

In order to obtain warranty service, you must deliver the Product to TDK freight prepaid, in either its original package or packaging providing a degree of protection equivalent to that of the original packaging, along with proof of purchase. (Please contact TDK at the number listed below for further information.)

TDK MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT THAT ANY IMPLIED WARRANTIES APPLY, DESPITE THEIR EXCLUSION UNDER THIS LIMITED WARRANTY, SUCH WARRANTIES SHALL BE LIMITED TO THE DURATION OF THE EXPRESS WARRANTIES PROVIDED HEREUNDER.

THE REMEDIES PROVIDED UNDER THIS LIMITED WARRANTY ARE THE SOLE AND EXCLUSIVE REMEDIES. TDK'S LIABILITY UNDER ANY LEGAL THEORY FOR ANY LOSS OR DAMAGE IN ANY WAY RELATED TO THE PRODUCT SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE PRODUCT. IN NO EVENT SHALL TDK BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THE PRODUCT.

Some states do not allow limitations on how long an implied warranty lasts or any exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

TDK Electronics Corp.  
901 Franklin Ave.  
Garden City, NY 11530

## TECH SUPPORT

Please refer to the troubleshooting section of this manual and at our Web site at [www.velocd.tdk.com](http://www.velocd.tdk.com).

### **If you are still having difficulty contact us at:**

1-800-TDK-TEAM  
(1-800-835-8326)  
[techsupport@tec.tdk.com](mailto:techsupport@tec.tdk.com)

### **For Australian Users**

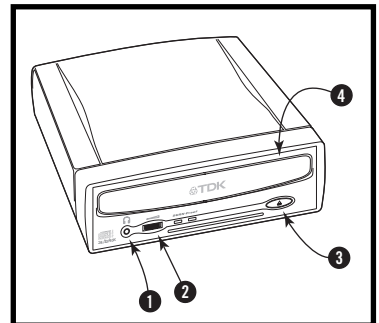
1 800 651 917  
[techsupport@tdk.com.au](mailto:techsupport@tdk.com.au)

40x

# SPECIFICATIONS

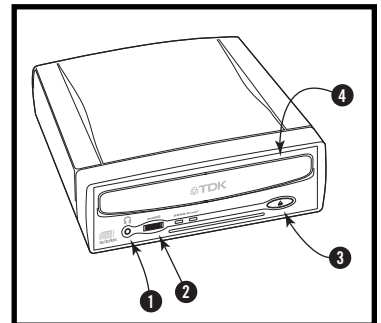
subject to change without notice

<b>Read formats</b>	<i>CD-DA, CD-ROM (mode 1), CD-ROM XA (mode 2: form 1 or form 2), CD-ROM (Mixed Mode), Photo CD, VideoCD, CD-I, CD-Extra, CD Text</i>	
<b>Write formats</b>	<i>CD-DA, CD-ROM (mode 1), CD-ROM XA (mode 2: form 1 or form 2), CD-ROM (Mixed Mode), Photo CD, VideoCD, CD-I, CD-Extra, CD Text</i>	
<b>Writing methods</b>	<i>Track-at-Once, Disc-at-Once, Multisession, Fixed and Variable Packet Writing</i>	
<b>Disc Diameter</b>	<i>12 cm diameter (74 &amp; 80 min)</i>	
<b>Sustained Data Transfer Rate</b>	<i>48x (read only): 7200 KB/sec 40x (read/write): 6000 KB/sec 32x (read/write): 4800 KB/sec 24x (read/write): 3600 KB/sec 20x (read/write): 3000 KB/sec</i>	<i>16x (read/write): 2400 KB/sec 12x (rewrite only): 1800 KB/sec 10x (rewrite only): 1500 KB/sec 8x (write only): 1200 KB/sec 4x (write/rewrite): 600 KB/sec</i>
<b>Burst Data Transfer Rate</b>	<i>16.6 MB/sec</i>	
<b>Buffer Memory</b>	<i>4MB</i>	
<b>Spindle Motor</b>	<i>Brushless</i>	
<b>Environmental Conditions</b>	<i><b>Operating Temp:</b> 5° to 45° degrees Celsius <b>Operating Humidity:</b> 8% to 80% noncondensing <b>Storage Temp:</b> -30° to 60° degrees Celsius <b>Storage Humidity:</b> 90% noncondensing</i>	
<b>MTBF</b>	<i>30,000 POH (20% duty cycle)</i>	
<b>Average Random Access</b>	<i>130 ms (40X CAV)</i>	
<b>Tray Loading</b>	<i>20,000 Load Cycles</i>	
<b>Power Consumption</b>	<i>DC+5V:2.0A / DC+12V:2.0A</i>	
<b>Dimensions</b>	<i>10 3/4 x 7 1/4 x 2 1/4</i>	
<b>Weight</b>	<i>3.1 lbs.</i>	
<b>Front Panel</b> <i>(see illustration)</i>	<i>1) Headphone Jack: Stereo mini-jack, .8V-.9V at 32 ohms 2) Thumbwheel Volume Control 3) Eject Button: Manual Emergency/Software Ejec t4) Auto Disc Loading</i>	



24x

<b>Read formats</b>	<i>CD-DA, CD-ROM (mode 1), CD-ROM XA (mode 2: form 1 or form 2), CD-ROM (Mixed Mode), Photo CD, VideoCD, CD-I, CD-Extra, CD Text</i>	
<b>Write formats</b>	<i>CD-DA, CD-ROM (mode 1), CD-ROM XA (mode 2: form 1 or form 2), CD-ROM (Mixed Mode), Photo CD, VideoCD, CD-I, CD-Extra, CD Text</i>	
<b>Writing methods</b>	<i>Track-at-Once, Disc-at-Once, Multisession, Fixed and Variable Packet Writing</i>	
<b>Disc Diameter</b>	<i>12 cm diameter (74 &amp; 80 min)</i>	
<b>Sustained Data Transfer Rate</b>	<i>40x (read only): 6000 KB/sec 32x (read only): 4800 KB/sec 24x (read/write): 3600 KB/sec 20x (read/write): 3000 KB/sec 16x (read/write): 2400 KB/sec</i>	<i>12x (read/write): 1800 KB/sec 10x (read/rewrite): 1500 KB/sec 8x (read/write/rewrite): 1200 KB/sec 4x (read/rewrite): 600 KB/sec 2x (read/rewrite): 300 KB/sec</i>
<b>Burst Data Transfer Rate</b>	<i>16.6 MB/sec</i>	
<b>Buffer Memory</b>	<i>2MB</i>	
<b>Spindle Motor</b>	<i>Brushless</i>	
<b>Environmental Conditions</b>	<i><b>Operating Temp:</b> 5° to 45° degrees Celsius <b>Operating Humidity:</b> 8% to 80% noncondensing <b>Storage Temp:</b> -30° to 60° degrees Celsius <b>Storage Humidity:</b> 90% noncondensing</i>	
<b>MTBF</b>	<i>30,000 POH (20% duty cycle)</i>	
<b>Average Random Access</b>	<i>130 ms (40X CAV)</i>	
<b>Tray Loading</b>	<i>20,000 Load Cycles</i>	
<b>Power Consumption</b>	<i>DC+5V:2.0A / DC+12V:2.0A</i>	
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<b>Weight</b>	<i>3.1 lbs.</i>	
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[www.tdk.com](http://www.tdk.com)



**TDK ELECTRONICS CORPORATION**  
901 Franklin Avenue Garden City, NY 11530 - U.S.A.